

Technical Data Sheet	
COLETANCHE ES 3 Geomembranes	

1.	Description	ription Coletanche ES 3 is an elastomeric modified bituminous geomembrane.		
2.	Use	Extreme level of mechanical constraints, exposed or covered (puncturing materials, thick cover layer, high pressures). For example:		
		 Mining and industrial waste storage facilities. Bottom of landfill cells. Deep hydraulic ponds. Dams. 		
		Product use must be validated by Axter Ltd.		
3.	Application Method	By torch welding or similar technique.		
4.	Storage	Rolls must not be stored directly on the ground. Provide suitable supports (blocks, slides, wooden planks) with a minimum height of 35cm, to be placed under the ends of the mandrel.		
5.	Composition	(Indicative).		

Reinforcement (g/m²)	Glass-fibre	50
Reinforcement (g/m²)	Non-woven geotextile	300
Binder (g/m²)	Elastomeric SBS	4800
Surface finish (g/m²)	Sand	250
Under surface finish (g/m²)	Silicone coated film	15



Characteristics			Standards (BS)	Units	Values	Min Tolerance
Dimonsions	Length		EN 1848-1	m	65	64
Dimensions	Width			m	5.10	5.01
Thickness (on finished	EN 1849-1	mm	4.8	4.2		
Surface mass	EN 1849-1	mm	5.80	5.00		
Tensile properties: maximum tensile				N/50mm	1400	1000
force	Cross direction		EN 12311-1	N/50mm	1200	850
Tensile properties:	Longitudinal		EN 12311-1	%	45	30
elongation	Cross direction		EN 12311-1	%	45	30
Flexibility at low temperature			EN 1109	°C	-20	-16
Static Puncture	Resistance		EN ISO 12236	kN	3.9	3.2
Static Functure	Displacement			mm	50	40
Water permeability	EN 14150	m³/m²/d	1.10-6	<		
Gas permeability			ASTM D 1434-82	m³/ (m².d.atm)	3.10-4	<
	·	Dı	ırability			
Oxidation	according to EN 12311-1 Residual value according to EN	Maximum strength	EN 14575	%	100	75
		Maximum elongation			100	75
Weathering		Maximum strength	- EN 12224	%	100	75
Weathering		Maximum elongation			100	75

The manufacturer reserves the right to modify, at any time, the characteristics of these products.

Axter Ltd reserves the right to modify and update this data at any time without prior notice. Only the latest version of this document is valid, available for download at <u>www.axter.co.uk/downloads</u>. Once downloaded, documents are uncontrolled. Users should always confirm they are referring to the latest version prior to use. Further assistance is available from Axter Ltd's Technical Support Team, email: <u>technical@axterttd.co.uk</u>, telephone: 01473 935008.

The intended use of this product should be verified with Axter Ltd prior to adoption to ensure its suitability and compliance with specifications, project requirements, industry regulations, legislation, good practice, installation techniques and all other relevant guidance. Axter Ltd accepts no liability for non-compliant use of this product.